

V42 SERIES DIAPHRAGM VALVE MASTER CHART

* FILL IN PROPER DESIGNATIONS TO DETERMINE PRODUCT NUMBER: **V 4 2**

PIPE SIZE (B thru L std)	
B = 3/4" (20mm)	G = 2" (50mm - V426)
C = 1" (25mm)	H = 2-1/2" (63mm)
D = 1-1/4" (32mm)	J = 3" (75 or 80mm)
E = 1-1/2" (40mm)	K = 4" (100mm)
F = 2" (50mm - V425)	L = 6" (150mm)

BODY SIZE (ref only)	
1 = 1"	7 = 3"
4 = 1-1/2"	8 = 4"
5 = 2"	9 = 6"
6 = 2-1/2"	

END CONNECTIONS (0 std for V421, V424, V425, V426 & V427; 3 std for V428 & V429)	
0 = Female N.P.T.	3 = Flanged, A.S.T.M.
1 = Female B.S.P.T.	4 = Flanged, I.S.O. (Not valid on V429 valves)

BODY & CAP MATERIAL (0 std [opt 1 not available with flanged bodies])	
0 = Cast Iron - RED primer	C = Cast Iron - painted ASH
1 = Cast Brass	D = Cast Iron - painted BLUE

VALVE OPTIONS (00 std [SAO not available on V429]; [NC not valid with solenoid or float configurations])		
00 = NO	11 = NO, LS, SAO	30 = NC
01 = NO, SAO	20 = NO, PI	32 = NC, SAC
02 = NO, SAC	21 = NO, PI, SAO	40 = NC, LS
10 = NO, LS		SX = Special Valve **

SEAL MATERIALS (0 std) (Option 5 not valid for NC valves or solenoid EO or EC valves)					
OPT.	OPERATING DIAPHRAGM	SEALING DISK	DYNAMIC SEALS	STATIC SEALS	KIT SERIES
0	Buna-N	Buna-N	Buna-N	Buna-N	RA
1	Buna-N	EP	EP	EP	RAE
2	Fluoroelast.	Fluoroelast.	Fluoroelast.	Fluoroelast.	RAV
4	Fluoroelast.	EP	EP	EP	RAEFV
5	Buna-N	Fluoroelast.	Fluoroelast.	Fluoroelast.	RAVFB
7	Buna-N	Hycar	Buna-N	Buna-N	RAJH

INTERNAL PARTS (0 std [opt 3 not valid for V421, V424, V425 & V429])	
0 = Brass and Stainless Steel	3 = All Stainless Steel

DRILL & TAP BOSSES (0 std [1/4" NPT std for all sizes]) (See notes 1 & 2)			
0 = None	4 = Boss #4	8 = Bosses #2,4	
1 = Boss #1	5 = Bosses #1,2,3,4	A = Bosses #2,3	
2 = Boss #2	6 = Bosses #1,2		
3 = Boss #3	7 = Bosses #1,3		

SOLENOID or FLOAT OPTIONS (0 std) (Options 1 thru 5 and A thru X are not valid with NC valves)					
0 = None	Solenoid Options	Float Options	Closed If	Close By	Open By
1 = Energize to Open (EO)		A = 3000 Float	High	Pilot Press.	Vent
2 = Energize to Close (EC)		B = 3010 Float	High	Pilot Press.	Pilot Press.
3 = Independent Pressure (IP)		C = 3011 Float	Low	Pilot Press.	Vent
4 = EO w/ Dry Drain		D = 3012 Float	Low	Pilot Press.	Pilot Press.
5 = EC w/ Dry Drain		E = 3010B Brine Float	High	Pilot Press.	Pilot Press.
		X = Replacement Valve Only (Includes Shaft Spacer)			

SOLENOID or FLOAT FEATURES (0 std [Polystyrene Float & 36" Brass Rod are std Float features])		
0 = None	Solenoid Option Features	Float Option Features
1 = 115V/60 HZ, NEMA 1		L = 36" PVC Float Rod
2 = 220V/50 HZ, NEMA 1		M = 36" SS Float & Rod
3 = 24V/60 HZ, NEMA 1		N = 54" Brass Float Rod
4 = 115V/60 HZ, NEMA 3, 3S, 4, 4X, 6, 6P, 7, 9		P = 54" SS Float Rod
5 = 220V/50 HZ, NEMA 3, 3S, 4, 4X, 6, 6P, 7, 9		X = Less Float & Rod
6 = 24V/60 HZ, NEMA 3, 3S, 4, 4X, 6, 6P, 7, 9		
A = 24VDC, NEMA 1		
B = 12VDC, NEMA 1		

* To create a valve number replace each " " with the proper number or letter for the feature you desire. For example, a 3/4" NPT Cast Iron Valve Model V421 with Normally Closed and Spring Assist Closed Options is designated as a V42B-0032-00000.

** A special valve will have a custom drawing number (_ _ _ _ _) and the item number format is (V42?-??SX- _ _ _ _ _) where the last 5 numbers (Far Right) are the last five digits of the drawing number.

- Valve Option Notes:
1. Boss #1 is always drilled and tapped on V429 and does not need to be specified in part no.
 2. Bosses needing to be drilled and tapped for solenoid or floats do not need to be specified in part no.

REV.	ECO. NO.	DESCRIPTION	BY/DATE
F	21190	Updated for Pentair ECN release	JJJ 17-Nov-09